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(54) STERILIZED CALCIUM CARBONATE COMPOSITION, ITS AQUEOUS SUSPENSION COMPOSITION AND THEIR PRODUCTION

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a sterilized calcium carbonate composition used for enriching calcium content by adding it to a food and imparting a soft grinding property to a cosmetic product such as a tooth past base material and having a high suspension stability.

SOLUTION: This sterilized calcium carbonate composition is obtained by mixing an aqueous suspension of calcium carbonate and an aqueous solution of sodium metaphosphate after their individual sterilization treatments by heating at 60-120°C for 15-60min in advance, and then crushing in a wet state. It is not desirable to perform the sterilization treatment after the mixing of them because insoluble calcium phosphate is formed. A polypeptide (e.g. casein phosphopeptide) is added as necessary. The solid portion concentration of calcium carbonate is 5-50wt.%, and 0.5-5 pts.wt. sodium metaphosphate is used based on 100 pts.wt. calcium carbonate. This sterilized calcium carbonate composition can easily be converted to a stable sterilized calcium carbonate aqueous suspension composition by adding a sterilized water such as a distilled water and it hardly forms a precipitation.

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